**FIGURE 1**
(PRIOR ART)



**FIGURE 2**
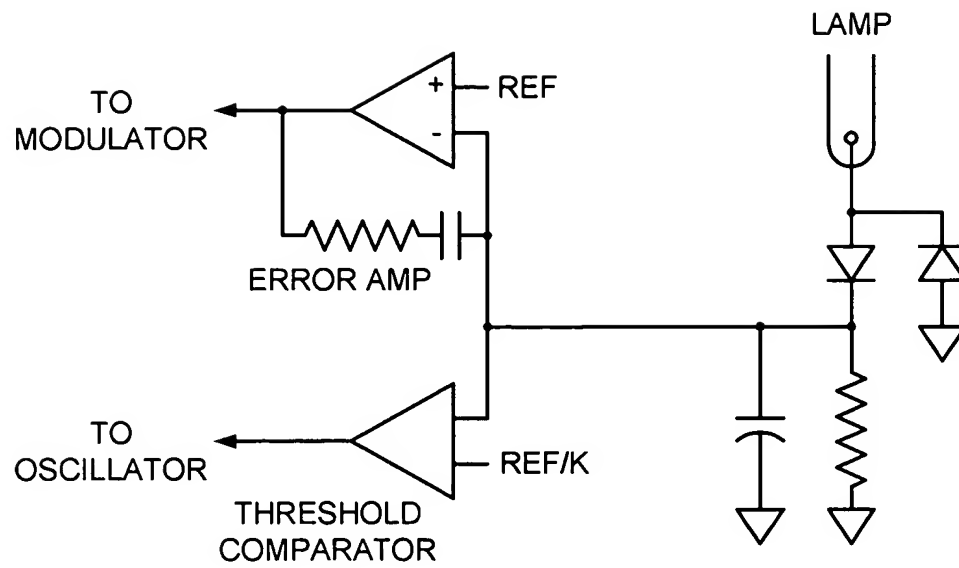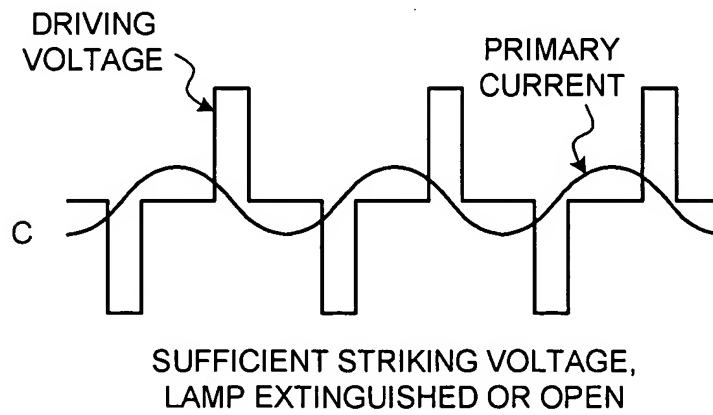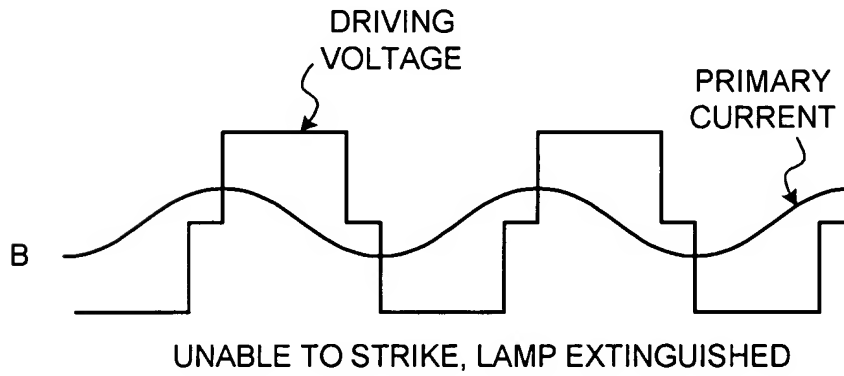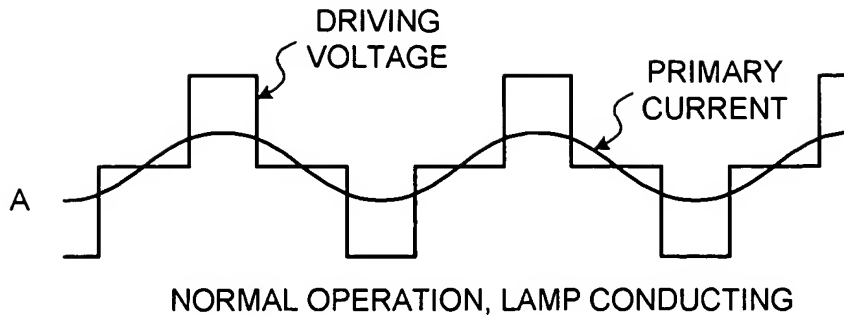(PRIOR ART)
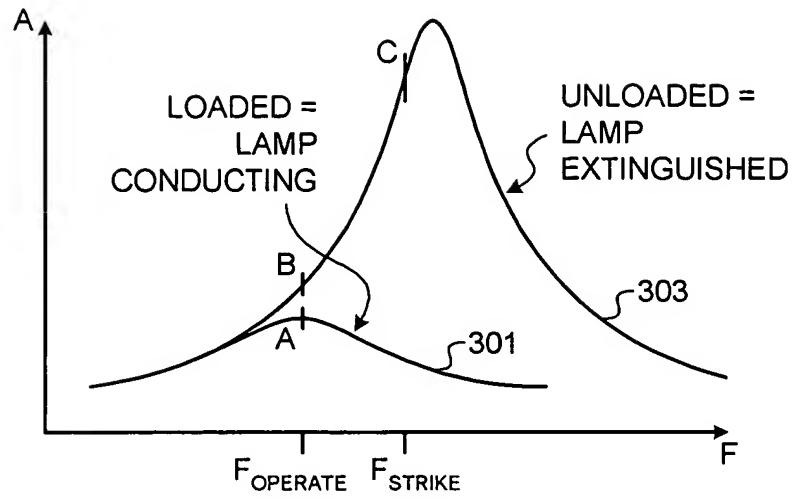
**FIGURE 3**

**FIGURE 4**
(PRIOR ART)

DRIVING
VOLTAGE

PRIMARY
CURRENT

A

NORMAL OPERATION, LAMP CONDUCTING

DRIVING
VOLTAGE

PRIMARY
CURRENT

B

UNABLE TO STRIKE, LAMP EXTINGUISHED

DRIVING
VOLTAGE

PRIMARY
CURRENT

C

SUFFICIENT STRIKING VOLTAGE,
LAMP EXTINGUISHED OR OPEN
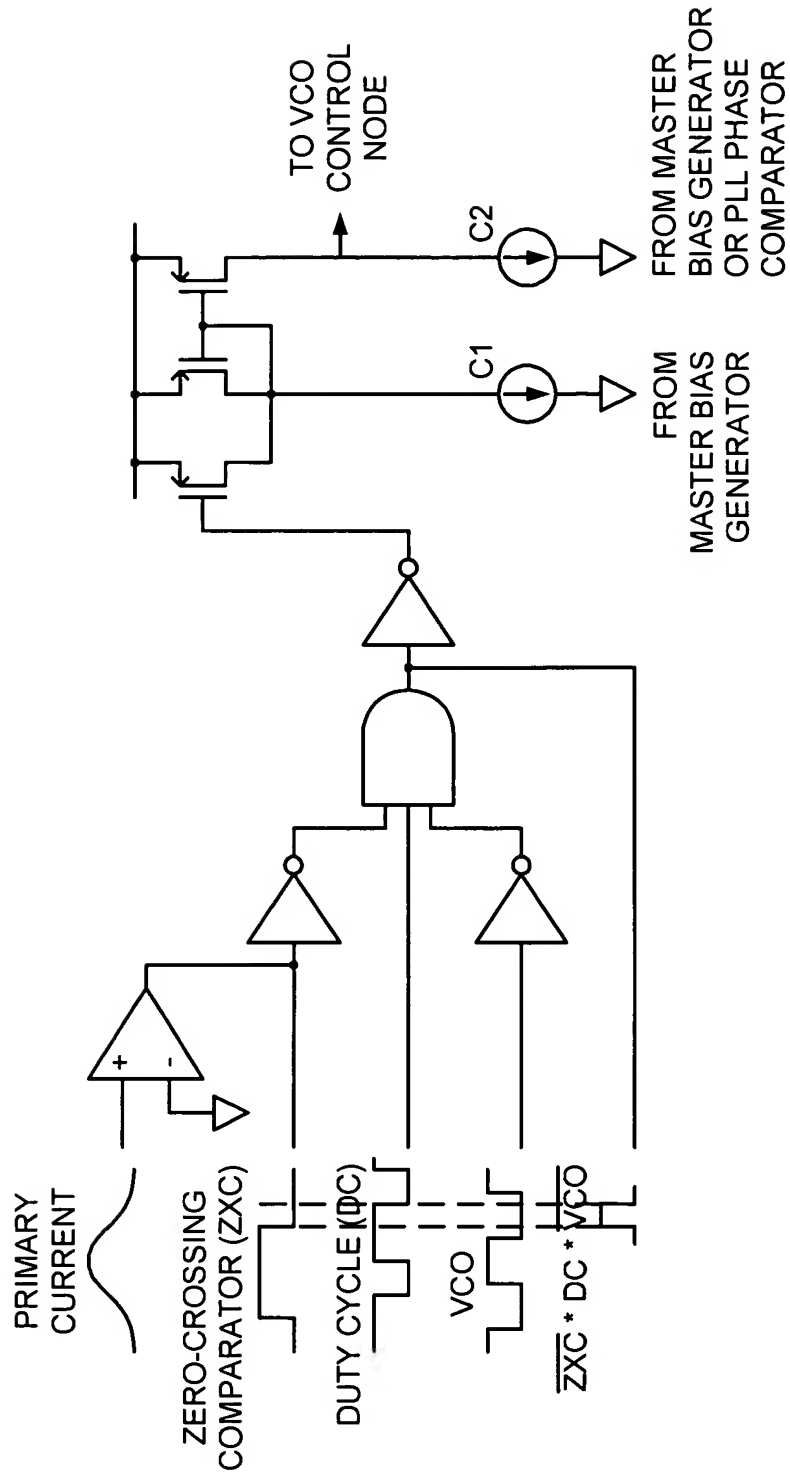
# FIGURE 5
## THE IDEA

**FIGURE 6**
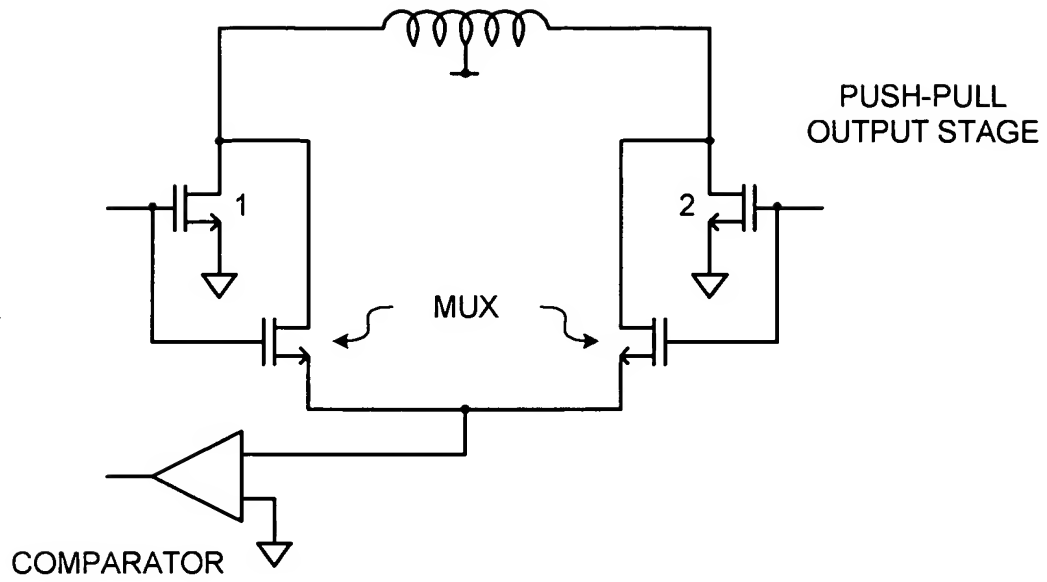VCO CONTROL LOGIC

FULL-BRIDGE
OUTPUT STAGE

MUX

COMPARATOR

**FIGURE 7**



HALF-BRIDGE
OUTPUT STAGE

COMPARATOR

$R_{PSENSE}$
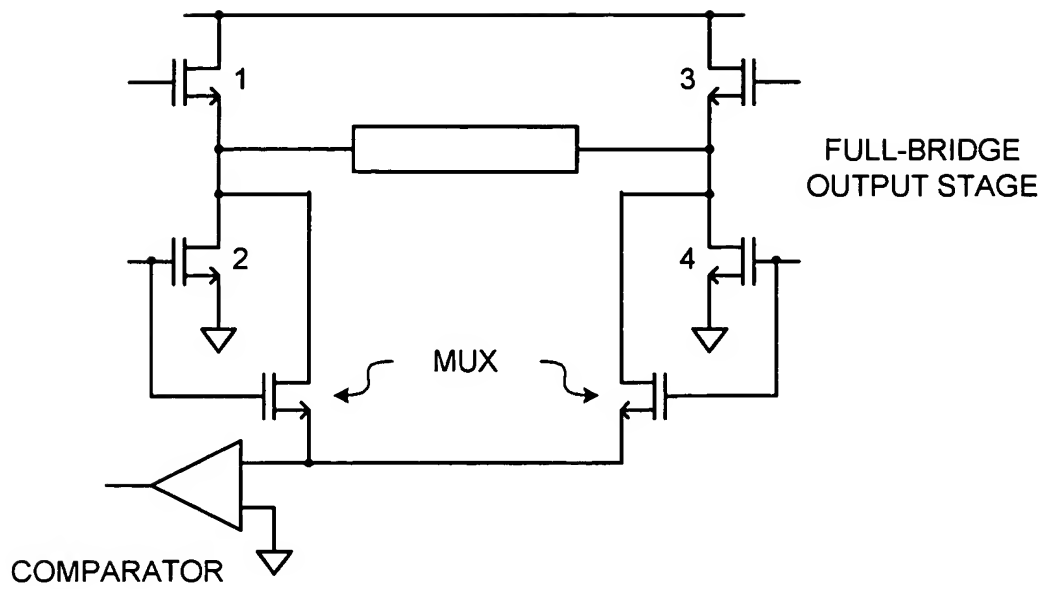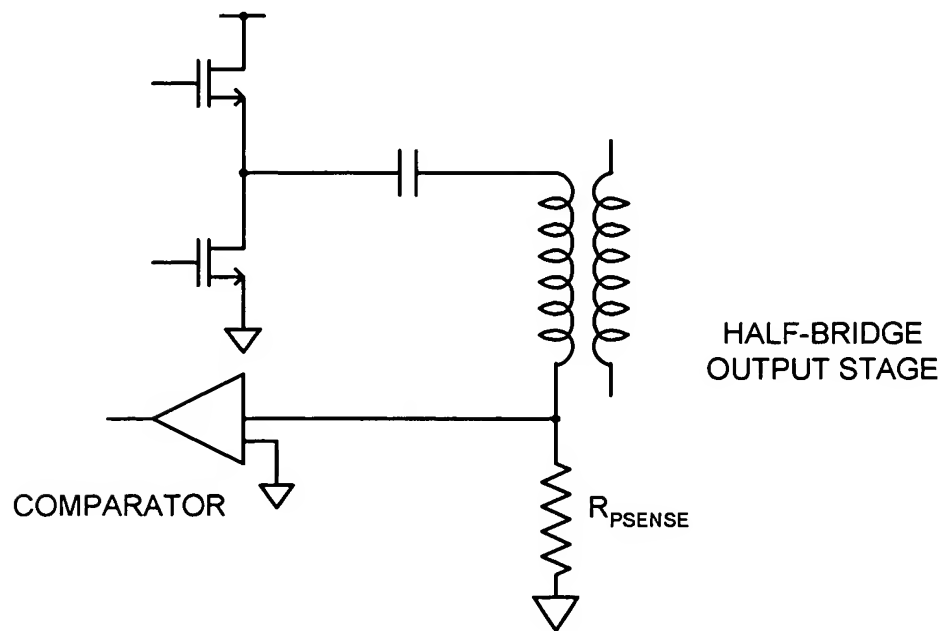
**FIGURE 8**

**FIGURE 9**

**FIGURE 10**